HCL-56204
#25

File No. B-28
POD 1379-1383

NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: http://www.ose.state.nm.us/

Purpose:	☐ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well (Pump test)	☐ Construction Site/Public Works Dewatering	☐ Other(Describe):
☒ Monitoring Well	☐ Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

☒ Temporary Request - Requested Start Date: 5/1/2017 Requested End Date: 12/31/2024

Plugging Plan of Operations Submitted? ☐ Yes ☒ No

STATE ENGINEER OFFICE SANTA FE, NEW MEXICO 2017 MAR 27 PM 1:35

1. APPLICANT(S)

Name: Homestake Mining Company of California	Name:
Contact or Agent: check here if Agent ☐ Thomas Wohlford	Contact or Agent: check here if Agent ☐
Mailing Address: P.O. Box 98, Hwy 605	Mailing Address:
City: Grants	City:
State: New Mexico Zip Code: 87020	State: Zip Code:
Phone: (505)290-2187 ☐ Home ☒ Cell Phone (Work):	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional): twohlford@barrick.com	E-mail (optional):

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 11/17/16

File No.: B-28	Trn. No.: 607924	Receipt No.: L56204 $25
Trans Description (optional): B-28 PODS 1379-1383		
Sub-Basin:	PCW/LOG Due Date: 6/1/2018	

PODS 1379-1383

90041244

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☐ NM State Plane (NAD83) (Feet)
☐ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

■ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
DD3 POD 1379	107°52'7.7"	35°15'20.0"	SE SWNW Section 23, T12N, R10W
DD4 POD 1380	107°52'9.3"	35°15'14.1"	NW NWSW Section 23, T12N, R10W
DD5 POD 1381	107°52'18.4"	35°15'7.5"	SE NESE Section 22, T12N, R10W
DD6 POD 1382	107°52'22.3"	35°15'10.8"	NE NESE Section 22, T12N, R10W
DD7 POD 1383	107°52'25.7"	35°15'13.6"	NW NESE Section 22, T12N, R10W

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ☐ **Yes** ■ **No** **If yes, how many**_____

Other description relating well to common landmarks, streets, or other:

Well is on land owned by: Homestake Mining Company of California

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ☑ **Yes** ■ **No**
If yes, how many 5

Approximate depth of well (feet): 70, 85, 55, 40, 20 (see 3. below)	Outside diameter of well casing (inches): 4 to 5
Driller Name: Yellow Jacket Drilling Services	Driller License Number: 1458

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Five wells are to be installed as monitoring wells for a lined evaporation pond. The estimated depths for the five wells are DD3 - 70 feet, DD4 - 85 feet, DD5 - 55 feet, DD6 - 40 feet, and DD7 - 20 feet. If possible, the wells will be installed with hollow stem auger drilling. If hollow stem drilling is used, a casing size of up to 5 inches may be used depending on the auger size. If other drilling techniques are used, the casing inside diameter will be 4.5 inches. The monitoring will continue until the evaporation pond is decommissioned. The pond is tentatively scheduled for decommissioning in 2024, but an extension of the pond use may be necessary.

FOR OSE INTERNAL USE — Application for Permit, Form WR-07

File No.: B-28	Trn No.: 607924

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory: ☐ Include a description of any proposed pump test, if applicable.	**Pollution Control and/or Recovery:** ☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge.	**Construction De-Watering:** ☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	**Mine De-Watering:** ☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water.
Monitoring: ■ Include the reason for the monitoring well, and, ■ The duration of the planned monitoring.	☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Thomas Wohlford
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Thomas Wohlford
Applicant Signature

Applicant Signature

STATE ENGINEER OFFICE
2017 APR 27 PM 1:35

ACTION OF THE STATE ENGINEER

This application is:

☑ approved ☐ ~~partially approved~~ ☐ ~~denied~~

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 1 day of June 20 17, for the State Engineer,

Tom Blaine, P.E.
State Engineer, State Engineer

By: Signature

CHRISTOPHER BURRUS
Print

Title: Water Resource Specialist District 1
Print

FOR OSE INTERNAL USE — Application for Permit, Form WR-07

File No.: B-28	Trn No.: 607929

NEW MEXICO OFFICE OF THE STATE ENGINEER
PERMIT TO DRILL WELL WITH NO CONSUMPTIVE USE
CONDITIONS OF APPROVAL

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the following conditions of approval:

Permittee: Homestake Mining Company of California
P.O. Box 98
Grants, NM 87020

Permit Number: 1605 and B-28

Application File Date: April 27, 2017

Priority: N/A

Source: Groundwater

Points of Diversion: B-28 POD1379 (DD3) located at a point where Latitude = 35°15'20.0" North and Longitude = 107°52'7.7" West, WGS84, within the SE SW NW, Section 23, Township 12 North, Range 10 West, Cibola County, New Mexico.

B-28 POD1380 (DD4) located at a point where Latitude = 35°15'9.3" North and Longitude = 107°52'9.3" West, WGS84, within the NW NW SW, Section 23, Township 12 North, Range 10 West, Cibola County, New Mexico.

B-28 POD1381 (DD5) located at a point where Latitude = 35°15'7.5" North and Longitude = 107°52'18.4" West, WGS84, within the SE NE SE, Section 22, Township 12 North, Range 10 West, Cibola County, New Mexico.

B-28 POD1382 (DD6) located at a point where Latitude = 35°15'10.8" North and Longitude = 107°52'22.3" West, WGS84, within the NE NE SE, Section 22, Township 12 North, Range 10 West, Cibola County, New Mexico.

B-28 POD1379 (DD7) located at a point where Latitude = 35°15'13.6" North and Longitude = 107°52'25.7" West, WGS84, within the NW NE SE, Section 22, Township 12 North, Range 10 West, Cibola County, New Mexico.

NEW MEXICO OFFICE OF THE STATE ENGINEER
PERMIT TO DRILL WELL WITH NO CONSUMPTIVE USE
CONDITIONS OF APPROVAL

All wells are located on land owned by Homestake Mining Company of California.

Purpose of Use: Monitoring Well

Place of Use: N/A

Amount of Water: N/A

1. No water shall be appropriated and beneficially used under this permit.
2. Wells B-28 POD1379 through 1383 shall be drilled and constructed by a driller licensed in the State of New Mexico in accordance with 19.27.4 NMAC.
3. Completed and properly executed Well Records on the form provided by the State Engineer shall be filed within 20 days after the wells are drilled.
4. The Permittee is responsible for obtaining an access agreement.
5. If artesian water is encountered, the Permittee and driller shall comply with Subsection C of 19.27.4.31 NMAC and all rules and regulations pertaining to the drilling and casing of the artesian wells.
6. Wells B-28 POD1379 through 1383 shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 20 days after the wells are plugged.
7. Wells B-28 POD1379 through 1383 must be completed within one year of the approval date of this permit.
8. Water shall be used from the well for monitoring purposes only, unless and until a permit for a specific use has been issued by the State Engineer.
9. Pursuant to Section 72-8-1 NMSA, the permittee shall allow the State Engineer and his representatives entry upon private property for the performance of their respective duties, including access to the wells for meter readings and water level measurements.

Witness my hand and seal this 1 day of June 2017

Tom Blaine, P.E.
State Engineer

By: _____

Christopher Burrus
Water Resource Specialist
District 1

File No: 1605 and B-28

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

DISTRICT 1

TOM BLAINE, P.E.
NEW MEXICO STATE ENGINEER

5550 San Antonio Drive, N.E.
Albuquerque, NM 87109 (505) 383-4000

June 1, 2017

File No.: 1605 and B-28

Homestake Mining Company of California
c/o Thomas Wohlford
P.O. Box 98
Grants, NM 87020

RE: MONITORING WELL PERMIT B-28 POD1379 through POD1383

Greetings,

Enclosed is your copy of Permit No.: B-28 POD1379 through POD1383 to drill five (5) monitoring wells with no consumptive use, has been approved in accordance with the attached Conditions of Approval.

Sincerely,

Christopher Burrus
Water Resource Specialist
Albuquerque, OSE, District 1

CB;cb;
Enclosure as stated
Cc: WRAB

Locator Tool Report

General Information:

Application ID:26 Date: 06-01-2017 Time: 09:42:32

WR File Number: B-00028-1379
Purpose: POINT OF DIVERSION

Applicant First Name: HOMESTKE
Applicant Last Name: MINING

GW Basin: BLUEWATER
County: CIBOLA

Critical Management Area Name(s): NONE
Special Condition Area Name(s): SAN MATEO CREEK HEALTH ADVISORY
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

NW 1/4 of SE 1/4 of SW 1/4 of NW 1/4 of Section 23, Township 12N, Range 10W.

Coordinate System Details:

Geographic Coordinates:

Latitude:	35 Degrees	15 Minutes	20.0 Seconds	N
Longitude:	107 Degrees	52 Minutes	7.7 Seconds	W

Universal Transverse Mercator Zone: 13N

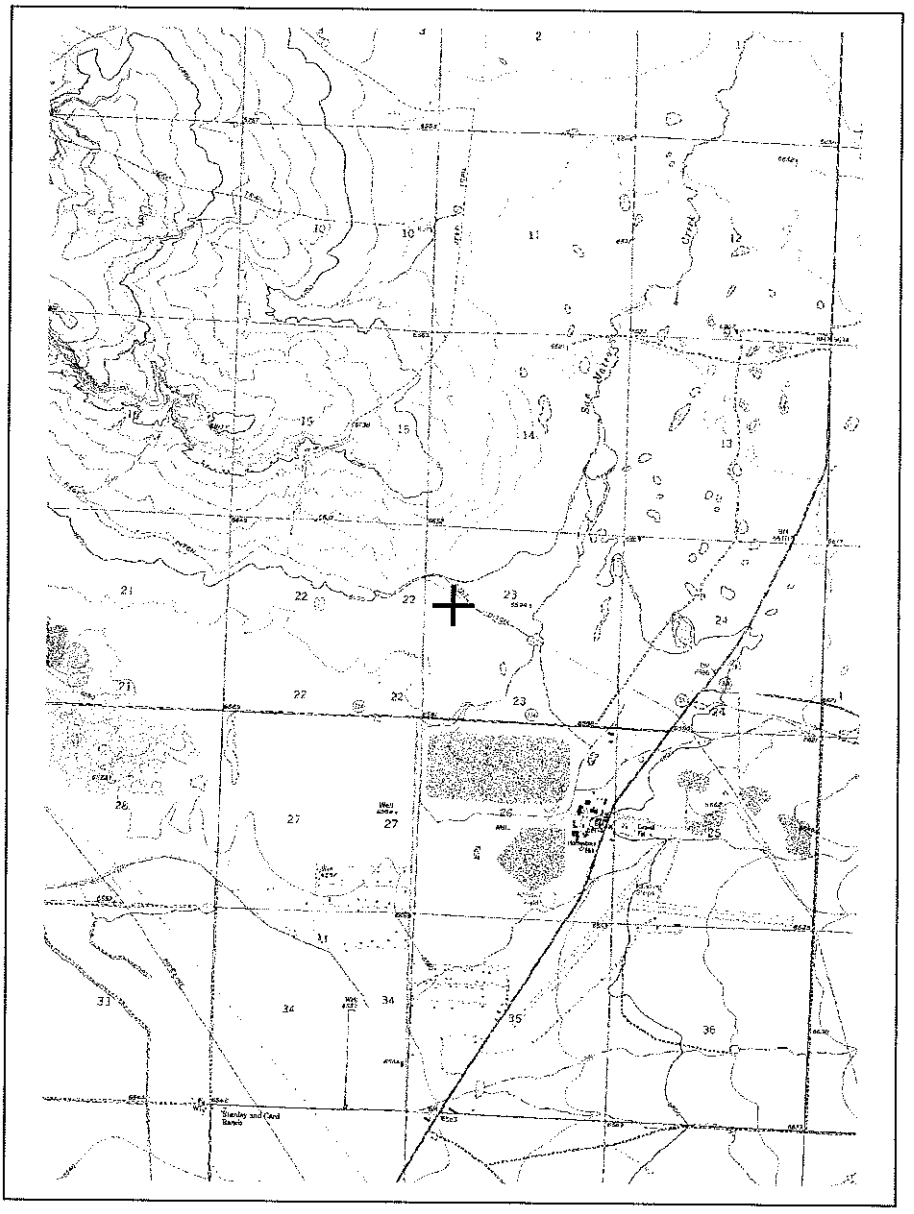
NAD 1983(92) (Meters)	N: 3,905,157	E: 238,997
NAD 1983(92) (Survey Feet)	N: 12,812,170	E: 784,108
NAD 1927 (Meters)	N: 3,904,954	E: 239,046
NAD 1927 (Survey Feet)	N: 12,811,502	E: 784,271

State Plane Coordinate System Zone: New Mexico West

NAD 1983(92) (Meters)	N: 471,932	E: 826,772
NAD 1983(92) (Survey Feet)	N: 1,548,330	E: 2,712,502
NAD 1927 (Meters)	N: 471,914	E: 149,228
NAD 1927 (Survey Feet)	N: 1,548,270	E: 489,593

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report



WR File Number: B-00028-1379 Scale: 1:62,008

Northing/Easting: UTM83(92) (Meter): N: 3,905,157 E: 238,997

Northing/Easting: SPCS83(92) (Feet): N: 1,548,330 E: 2,712,502

GW Basin: Bluewater

Print Date: 06/01/2017

Locator Tool Report

General Information:

Application ID: 26 Date: 06-01-2017 Time: 09:37:59

WR File Number: B-00028-1380
Purpose: POINT OF DIVERSION

Applicant First Name: HOMESTKE
Applicant Last Name: MINING

GW Basin: BLUEWATER
County: CIBOLA

Critical Management Area Name(s): NONE
Special Condition Area Name(s): SAN MATEO CREEK HEALTH ADVISORY
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

NE 1/4 of NW 1/4 of NW 1/4 of SW 1/4 of Section 23, Township 12N, Range 10W.

Coordinate System Details:

Geographic Coordinates:

Latitude:	35 Degrees	15 Minutes	14.1 Seconds	N
Longitude:	107 Degrees	52 Minutes	9.3 Seconds	W

Universal Transverse Mercator Zone: 13N

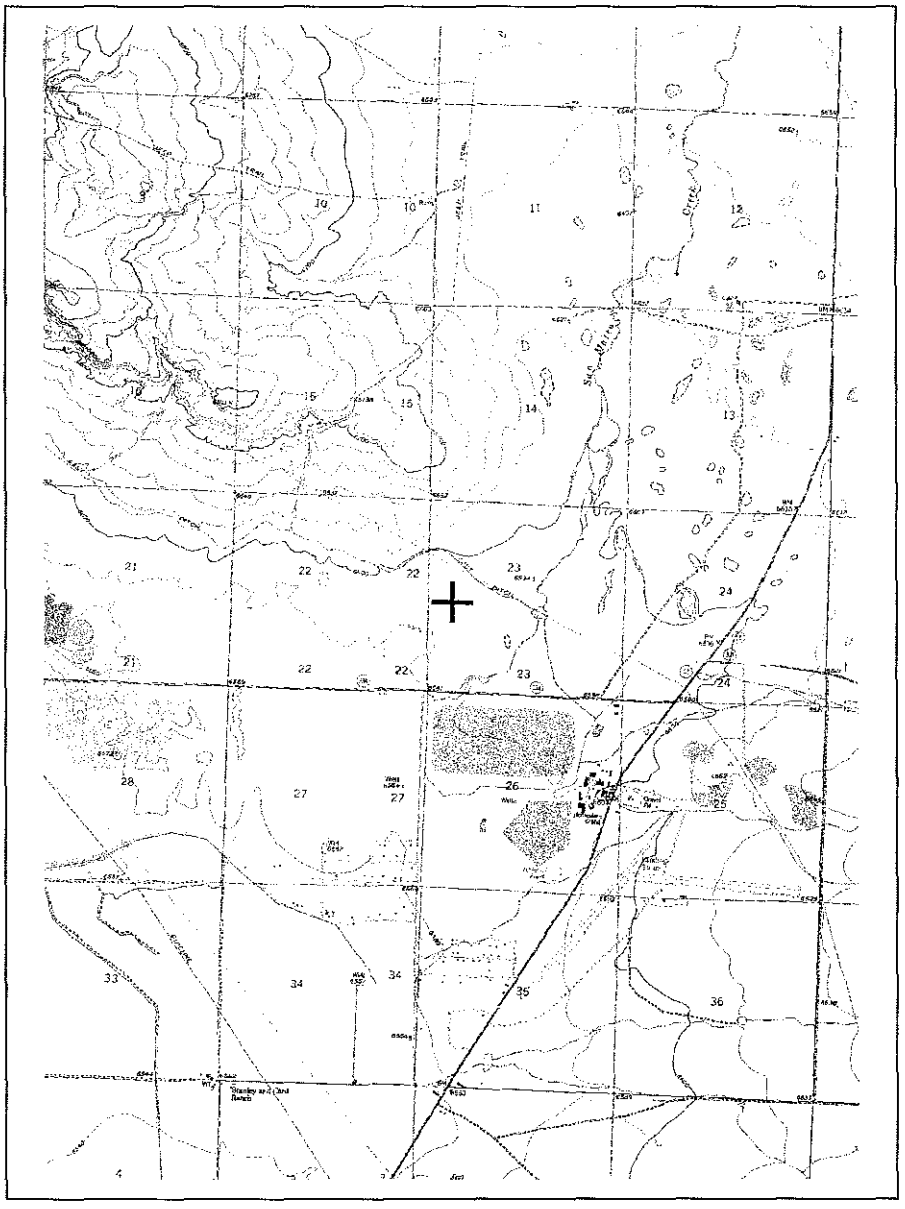
NAD 1983(92) (Meters)	N: 3,904,977	E: 238,951
NAD 1983(92) (Survey Feet)	N: 12,811,578	E: 783,958
NAD 1927 (Meters)	N: 3,904,773	E: 239,001
NAD 1927 (Survey Feet)	N: 12,810,909	E: 784,121

State Plane Coordinate System Zone: New Mexico West

NAD 1983(92) (Meters)	N: 471,750	E: 826,732
NAD 1983(92) (Survey Feet)	N: 1,547,733	E: 2,712,369
NAD 1927 (Meters)	N: 471,732	E: 149,188
NAD 1927 (Survey Feet)	N: 1,547,673	E: 489,460

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report



WR File Number: B-00028-1380 Scale: 1:62,008

Northing/Easting: UTM83(92) (Meter): N: 3,904,977 E: 238,951

Northing/Easting: SPCS83(92) (Feet): N: 1,547,733 E: 2,712,369

GW Basin: Bluewater

Print Date: 06/01/2017

Locator Tool Report

General Information:

Application ID: 26 Date: 06-01-2017 Time: 09:38:44

WR File Number: B-00028-1381
Purpose: POINT OF DIVERSION

Applicant First Name: HOMESTKE
Applicant Last Name: MINING

GW Basin: BLUEWATER
County: CIBOLA

Critical Management Area Name(s): NONE
Special Condition Area Name(s): SAN MATEO CREEK HEALTH ADVISORY
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

NE 1/4 of SE 1/4 of NE 1/4 of SE 1/4 of Section 22, Township 12N, Range 10W.

Coordinate System Details:

Geographic Coordinates:

Latitude:	35 Degrees	15 Minutes	7.5 Seconds	N
Longitude:	107 Degrees	52 Minutes	18.4 Seconds	W

Universal Transverse Mercator Zone: 13N

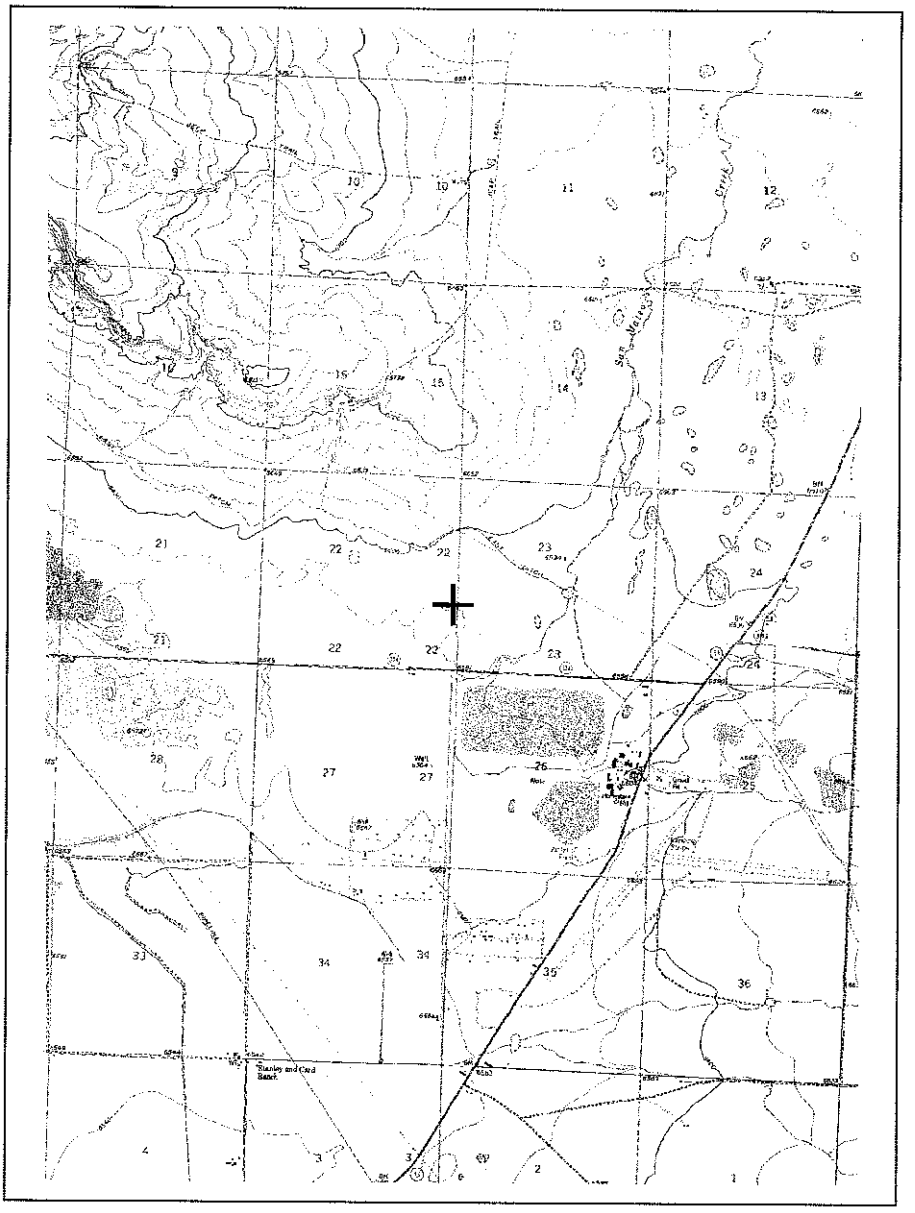
NAD 1983(92) (Meters)	N: 3,904,780	E: 238,715
NAD 1983(92) (Survey Feet)	N: 12,810,932	E: 783,184
NAD 1927 (Meters)	N: 3,904,576	E: 238,765
NAD 1927 (Survey Feet)	N: 12,810,264	E: 783,347

State Plane Coordinate System Zone: New Mexico West

NAD 1983(92) (Meters)	N: 471,547	E: 826,502
NAD 1983(92) (Survey Feet)	N: 1,547,066	E: 2,711,614
NAD 1927 (Meters)	N: 471,529	E: 148,958
NAD 1927 (Survey Feet)	N: 1,547,006	E: 488,705

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report



WR File Number: B-00028-1381 Scale: 1:62,008

Northing/Easting: UTM83(92) (Meter): N: 3,904,780 E: 238,715

Northing/Easting: SPCS83(92) (Feet): N: 1,547,066 E: 2,711,614

GW Basin: Bluewater

Print Date: 06/01/2017

Locator Tool Report

General Information:

Application ID:26 Date: 06-01-2017 Time: 09:39:53

WR File Number: B-00028-1382
Purpose: POINT OF DIVERSION

Applicant First Name: HOMESTKE
Applicant Last Name: MINING

GW Basin: BLUEWATER
County: CIBOLA

Critical Management Area Name(s): NONE
Special Condition Area Name(s): SAN MATEO CREEK HEALTH ADVISORY
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

SW 1/4 of NE 1/4 of NE 1/4 of SE 1/4 of Section 22, Township 12N, Range 10W.

Coordinate System Details:

Geographic Coordinates:

Latitude:	35 Degrees	15 Minutes	10.8 Seconds	N
Longitude:	107 Degrees	52 Minutes	22.3 Seconds	W

Universal Transverse Mercator Zone: 13N

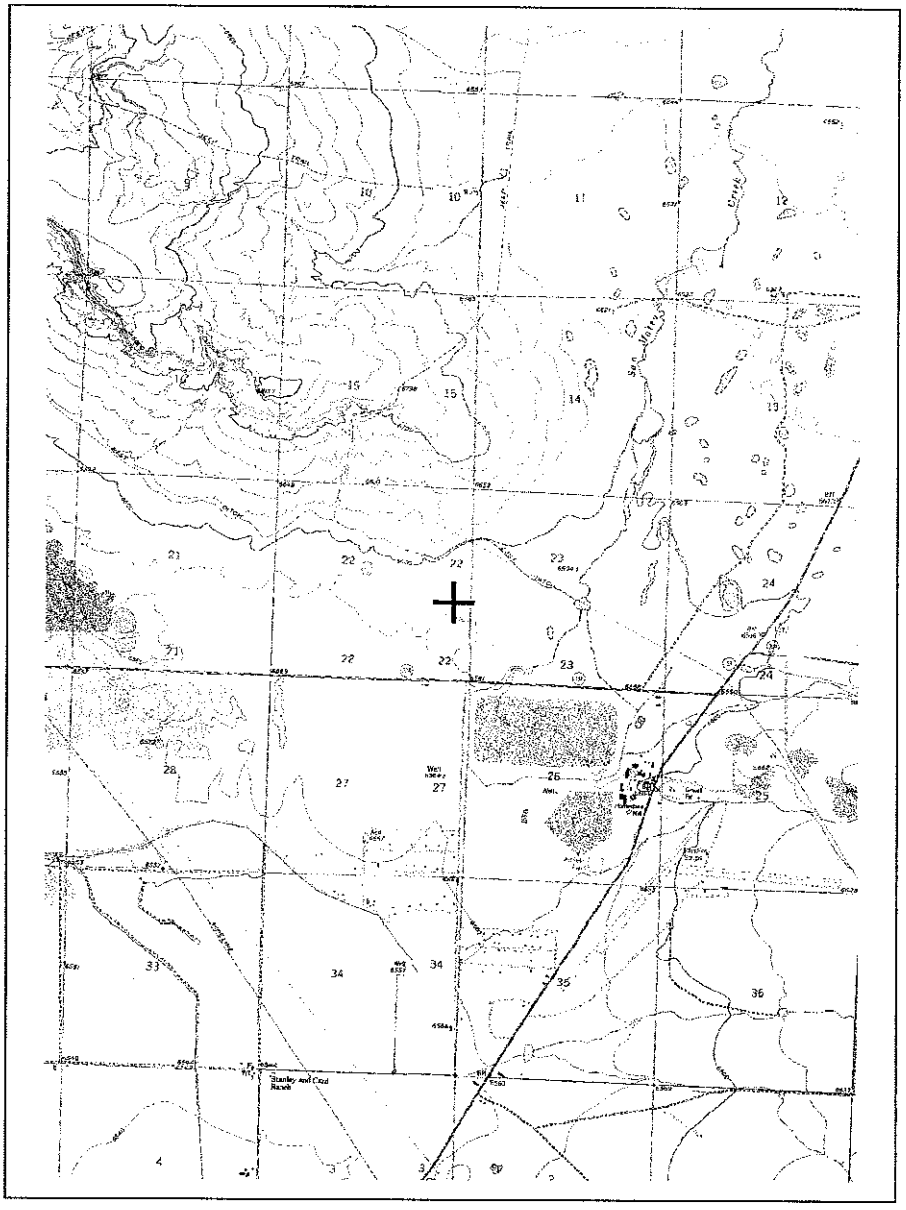
NAD 1983(92) (Meters)	N: 3,904,885	E: 238,619
NAD 1983(92) (Survey Feet)	N: 12,811,275	E: 782,870
NAD 1927 (Meters)	N: 3,904,681	E: 238,669
NAD 1927 (Survey Feet)	N: 12,810,607	E: 783,033

State Plane Coordinate System Zone: New Mexico West

NAD 1983(92) (Meters)	N: 471,649	E: 826,403
NAD 1983(92) (Survey Feet)	N: 1,547,400	E: 2,711,291
NAD 1927 (Meters)	N: 471,630	E: 148,859
NAD 1927 (Survey Feet)	N: 1,547,340	E: 488,382

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report



WR File Number: B-00028-1382 Scale: 1:62,008

Northing/Easting: UTM83(92) (Meter): N: 3,904,885 E: 238,619

Northing/Easting: SPCS83(92) (Feet): N: 1,547,400 E: 2,711,291

GW Basin: Bluewater

Print Date: 06/01/2017

Locator Tool Report

General Information:

Application ID: 26 Date: 06-01-2017 Time: 09:40:31

WR File Number: B-00028-1383
Purpose: POINT OF DIVERSION

Applicant First Name: HOMESTKE
Applicant Last Name: MINING

GW Basin: BLUEWATER
County: CIBOLA

Critical Management Area Name(s): NONE
Special Condition Area Name(s): SAN MATEO CREEK HEALTH ADVISORY
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

NE 1/4 of NW 1/4 of NE 1/4 of SE 1/4 of Section 22, Township 12N, Range 10W.

Coordinate System Details:

Geographic Coordinates:

Latitude:	35 Degrees	15 Minutes	13.6 Seconds	N
Longitude:	107 Degrees	52 Minutes	25.7 Seconds	W

Universal Transverse Mercator Zone: 13N

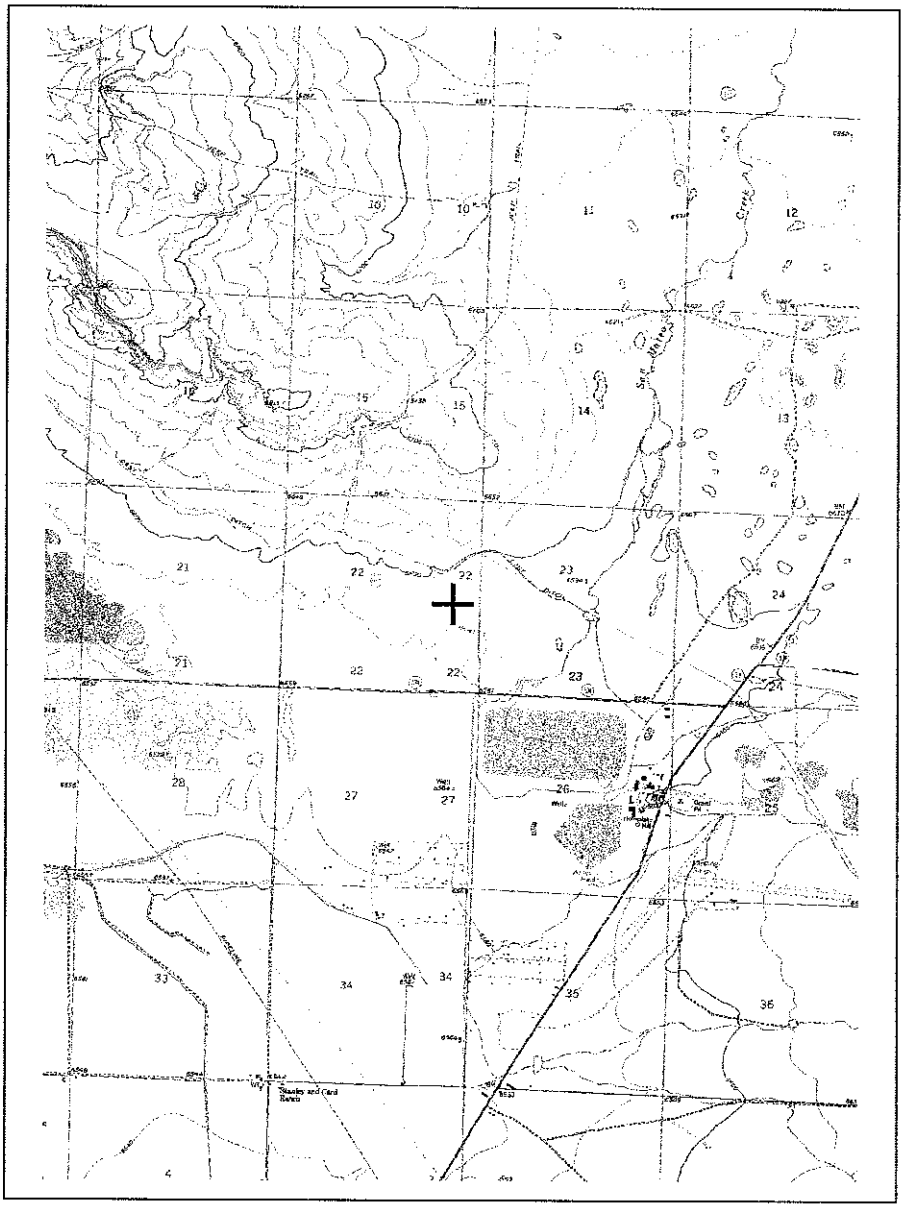
NAD 1983(92) (Meters)	N: 3,904,973	E: 238,536
NAD 1983(92) (Survey Feet)	N: 12,811,567	E: 782,596
NAD 1927 (Meters)	N: 3,904,770	E: 238,586
NAD 1927 (Survey Feet)	N: 12,810,898	E: 782,759

State Plane Coordinate System Zone: New Mexico West

NAD 1983(92) (Meters)	N: 471,735	E: 826,317
NAD 1983(92) (Survey Feet)	N: 1,547,683	E: 2,711,009
NAD 1927 (Meters)	N: 471,717	E: 148,773
NAD 1927 (Survey Feet)	N: 1,547,623	E: 488,100

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report



WR File Number: B-00028-1383 Scale: 1:62,008

Northing/Easting: UTM83(92) (Meter): N: 3,904,973 E: 238,536

Northing/Easting: SPCS83(92) (Feet): N: 1,547,683 E: 2,711,009

GW Basin: Bluewater

Print Date: 06/01/2017

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – ALBUQUERQUE OFFICE

OFFICIAL RECEIPT NUMBER: 1 - 56204 & DATE: 4/27/17 FILE NO.: _____

TOTAL: 25 00 RECEIVED: ~~One~~ Twenty Five and 00/100 DOLLARS CHECK NO.: 1264 CASH: _____

PAYOR: Homestake Mining ADDRESS: 10208 Brentwood Cir CITY: Highlands Ranch STATE: CO

ZIP: 80126 RECEIVED BY: Thomas Paul Wohlford

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; and **yellow** copy for Water Rights. If a mistake is made, void the original and all copies and submit to Program Support/ASD as part of your daily deposit.

A. Ground Water Filing Fees

_	1. Change of Ownership of Water Right	$ 2.00
_	2. Application to Appropriate or Supplement Domestic 72-12-1 Well	$ 125.00
___	3. Application to Repair or Deepen 72-12-1 Well	$ 75.00
___	4. Application for Replacement 72-12-1 Well	$ 75.00
___	5. Application to Change Purpose of Use 72-12-1 Well	$ 75.00
___	6. Application for Stock Well	$ 5.00
___	7. Application to Appropriate Irrigation, Municipal, or Commercial Use	$ 25.00
___	8. Declaration of Water Right	$ 1.00
___	9. Application for Supplemental Non 72-12-1 Well	$ 25.00
___	10. Application to Change Place or Purpose of Use Non 72-12-1 Well	$ 25.00
___	11. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water	$ 50.00
___	12. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water	$ 50.00
___	13. Application to Change Point of Diversion of Non 72-12-1 Well	$ 25.00
___	14. Application to Repair or Deepen Non 72-12-1 Well	$ 5.00
5	15. Application for Test, Expl. Observ. Well	$ 5.00
___	16. Application for Extension of Time	$ 25.00
___	17. Proof of Application to Beneficial Use	$ 25.00
___	18. Notice of Intent to Appropriate	$ 25.00

B. Surface Water Filing Fees

___	1. Change of Ownership of a Water Right	$ 5.00
___	2. Declaration of Water Right	$ 10.00
___	3. Amended Declaration	$ 25.00
___	4. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Surface Water	$ 200.00
___	5. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water	$ 200.00
___	6. Application to Change Point of Diversion	$ 100.00
___	7. Application to Change Place and/or Purpose of Use	$ 100.00
___	8. Application to Appropriate	$ 25.00
___	9. Notice of Intent to Appropriate	$ 25.00
___	10. Application for Extension of Time	$ 50.00
___	11. Supplemental Well to a Surface Right	$ 100.00
___	12. Return Flow Credit	$ 100.00
___	13. Proof of Completion of Works	$ 25.00
___	14. Proof of Application of Water to Beneficial Use	$ 25.00
___	15. Water Development Plan	$ 100.00
___	16. Declaration of Livestock Water Impoundment	$ 10.00
___	17. Application for Livestock Water Impoundment	$ 10.00

C. Well Driller Fees

___	1. Application for Well Driller's License	$ 50.00
___	2. Application for Renewal of Well Driller's License	$ 50.00
___	3. Application to Amend Well Driller's License	$ 50.00

D. Reproduction of Documents

___ @ 0.25¢ $_____

___ Map(s) $_____

E. Certification $_____

F. Other $_____

G. Comments:

_____

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All fees are non-refundable.

New Mexico Office of the State Engineer
Driller Summary

Driller Name: RICHARD LEBLANC
Legacy License Number: 1458
License Number: 1458
License Issue Date: 11/02/2016
License Expiration Date: 10/31/2018
Compliance Status:

Phone Number: (602) 453-3252
Email Address: RICHARD@YJDRILLING.COM
Address: P.O. BOX 801
GILBERT, AZ 85299
License Status:

Methodologies

AIR ROTARY DRILLING
MUD ROTARY DRILLING
REVERSE CIRCULATION DRILLING

Drill Rig Supervisors

AARON JAMES ADAMS
TIMOTHY BAIRD
TODD CAHILL
SEAN CARRIGAN
JOHN CHAVES
CARLOS D. HERNANDEZ
CLIFFORD HILLMAN
RICHARD HOYT
RICHARD HOYT
CHARLES JOHNSON
SERGIO RUFINO JORGE
JACOB LAGANA
THOMAS LANEY
STEVEN LARA
JASON MAYS
JASON MAYS
JOSE MUNGUIA
MARION E. PHILLIPS JR.
CLIFFORD RAINBOLT
CLIFFORD RAINBOLT
YOVANNI ROSAS
ROJELIO RUBIO
KATHERINE SANGSTER
ISMAEL SAPIEN
QUENTIN STEVENS
JOSEPH A. VALENTINE
MARC ROLAND WILLIAMS

Company Information

Company	Liability Ins Exp Date	Continuous Bond?	Bond Exp Date	Location	Email Address	Phone
YELLOW JACKET DRLG. SERV. LLC	04/01/2018	Yes		GILBERT, AZ 85299	RICHARD@YJDRILLING.COM	(602) 453-3252

Drill Rigs

Make	Model	Serial Number
ATLAS COPCO	T3W	21309
CENTRAL MINE	850	236112 (RIG#105)
CENTRAL MINE	1250 (1987)	86779 (RIG#113)
CENTRAL MINE	85	346776 (RIG# 115)
CENTRAL MINE	85	46743759 (RIG# 120)
FOREMOST	DR24HD	112603 (RIG #123)
FOREMOST	DR24HD	162752
LIMITED ACCESS	L-12-T	117411 (RIG#108)
LONGYEAR	BK-81-HD	0594-121 (RIG # 102)
LONGYEAR	BK-81-HD	BK81-1194-124
LONGYEAR	BK-81-XHD	BK81-1194-122 (RIG#
LONGYEAR		BK-81HD-1192_112
PULSTAR	P12000	70012-IN (RIG# 125)
PULSTAR	P12000	203009 (RIG# 124)
PULSTAR	P12000	112113-IN (RIG# 133)
SMEAL	4T	F450165 (RIG#118)
SPEEDSTAR	50K-CH	907798 (RIG#119)
SPEEDSTAR	50K-CH	907609 (RIG#121)
SPEEDSTAR	110K	907623 (RIG#117)
SPEEDSTAR	CH40K	907512
SPEEDSTAR	CH50K	907932 (RIG#129)
SPEEDSTAR	CH50K	907933 (RIG# 128)
TS1	150 SONIC	TS1155 (RIG# 130)
TS1	150 SONIC	TS1168 (RIG# 131)
VACMASTER	4000	0501-501VDD-54

4/23/17 12:33 PM DRILLER SUMMARY

Supplemental Monitoring Well Locations for EP-3

Introduction

The following discussion describes the proposed locations and construction of additional monitoring wells for Evaporation Pond #3 (EP-3). A recommendation for the location of these wells was requested by Tom Wohlford. The additional monitoring wells would expand the monitoring system for EP-3, and could potentially provide additional background alluvial characterization up-gradient of the Large Tailings Pile (LTP).

Discussion and Recommendations

The proposed additional well locations are shown in the attached figure (blue symbols) along with existing alluvial wells DD and DD2. Both well DD and well DD2 provide alluvial monitoring that could potentially reveal impacts by leakage from EP-3. The five proposed monitoring wells include one up-gradient well (DD3), two wells (DD4 and DD5) located to supplement the existing coverage on the south and east sides of EP-3, and two wells (DD6 and DD7) that provide coverage on the southwest side of EP-3 in an area where the alluvium is not likely to be saturated. The general direction of alluvial ground-water flow is from northeast to southwest.

With the exception of well DD3, the proposed wells are located within the interior fence around EP-3 and at a distance of 70 to 90 feet from the toe of the EP-3 outer berm. Although the wells could be located slightly closer to EP-3, this would make them more susceptible to damage during maintenance of the pond berms. Well DD3 is planned to be located just inside the exterior fence surrounding EP-3 and up-gradient of EP-3. The tabulation below presents the proposed completion information for the wells.

Existing Wells

Well Name	State Plane	State Plane	Well Depth	Casing Size	Approx. Land Surface Elev.	Depth to Base of Alluvium	Est. Base of Alluvium Elev.	Estimated WLE	Perforation Interval
	Easting	Northing	(feet)	(inch)	(ft-MSL)	(ft-LSD)	(ft-MSL)	(ft-MSL)	(ft-LSD)
DD	488943	1546989	78.5	4	6590	83	6507	6545.1	40 - 80
DD2	489251	1547439	94.3	4	6591	80	6511	6546.9	50 - 90

Proposed Wells

Well Name	Proposed State Plane	Proposed State Plane	Proposed Well Depth	Proposed Casing Size	Approx. Land Surface Elev.	Estimated Depth to Base of Alluvium	Estimated Base of Alluvium Elev.	Estimated WLE	Proposed Perforation Interval
	Easting	Northing	(feet)	(inch)	(ft-MSL)	(ft-LSD)	(ft-MSL)	(ft-MSL)	(ft-LSD)
DD3	489590	1548270	70	4.5	6594	69	6525	6548.5	50-70
DD4	489460	1547680	85	4.5	6592	84	6508	6547.5	45-85
DD5	488700	1547010	55	4.5	6588	56	6532	6545	45-55
DD6	488380	1547350	40	4.5	6589	37	6552	?	30-40
DD7	488100	1547630	20	4.5	6589	19	6570	?	10-20

The recommended completion for the wells is similar to that used for numerous alluvial aquifer wells installed near the site over the last three years. The recommended casing is 4.5 inch PVC (SDR-21, Schedule 40 or heavier). Because it is relatively important to detect the base of the alluvium, cuttings samples should be collected, examined, and described on five foot or finer intervals. If the Chinle shale is not encountered with the proposed drilling depth, the drilling should continue for an additional fifteen feet or until the Chinle Shale is detected. Conversely, if the Chinle Shale is encountered at a shallower depth

than expected, the drilling should continue only far enough to confirm the contact with the Chinle Shale. If the depth of the drilling to the contact with Chinle Shale (defining the base of alluvium) differs significantly from the tabulation above, the well depths and perforation interval should be shifted up or down to conform with the drilling depths.

The wells should be installed with a sand pack around the perforations and extending to approximately five feet above the top of the perforations. The sand and perforation size for the typical HMC alluvial wells can be used for the proposed wells. A bentonite chip or pellet seal should be used to fill the annulus from the top of the sand to the land surface.

Permitting Considerations

The proposed additional well locations are outside of the area covered by the New Mexico Office of the State Engineer (OSE) permit file numbers 1605 and B-28. Two potential options for permitting of the proposed wells are described below.

- The proposed wells could be permitted as monitoring wells with the OSE. If permitted as monitoring wells, the wells could not be used for injection or collection, but the permitting process is streamlined in that monitoring wells are not subject to protests by other users. This is the recommended approach.
- The active OSE permits allow drilling of numerous collection or injection wells in the On-Site area and there are still some permitted wells available under the existing permits. A request could be made to the OSE to shift the location of five wells under the existing permit to the EP-3 area. One advantage to this approach is that, if remedial efforts are necessary in the EP-3 area, the wells could potentially be used for collection or injection.

HOMESTAKE
Grants Project

Homestake Mining Company of California

Thomas Wohlford
Interim Closure Manager

10 April 2017

Office of the State Engineer
5550 San Antonio Dr., NE
Albuquerque, New Mexico 87109-4127

RE: Application for Permit to Drill Monitoring Wells

Dear Sir or Madam,

Homestake Mining Company of California (HMC) is submitting the attached form *WR-07 Application for Permit to Drill a Well With No Water Right* to install five additional monitoring wells on the perimeter of a lined evaporation pond. The evaporation pond is located at the HMC site north of Grants New Mexico. HMC's contact with the Office of the State Engineer on other water rights issues has been Chris Burrus.

The five additional wells will be installed to the approximate base of the alluvium at the site with expected depths ranging from 20 feet to 85 feet. The casing will be PVC with commercial well screen extending over the approximate saturated interval, if present, from the base of the alluvium. If saturation is present, the wells will be used to obtain water samples and to measure water levels.

The wells will be monitored until the pond is decommissioned. The decommissioning is tentatively planned for 2024, but if the pond continues to be used after 2024, the wells will continue to be monitored. When the pond is decommissioned and the wells are no longer needed, they will be plugged and abandoned using the procedures and methods prescribed by the Office of the State Engineer.

Technical questions concerning this application can be directed to:

Tom Michel
Hydro-Engineering LLC
4685 East Magnolia
Casper, WY 82604
Phone: (307)266-6597
hydro@alluretech.net

Thank you very much for your time and attention, if you have any questions regarding the foregoing information, I can be reached at 505-287-4456 extension 34 or directly via cell phone at 505-290-2187.

HOMESTAKE

Grants Project

Homestake Mining Company of California

10 April 2017

Respectfully,

Thomas P. Wohlford

Thomas Wohlford, Hydrogeologist, CPG
Interim Closure Manager
HOMESTAKE MINING COMPANY OF CALIFORNIA

Copy To:

H. Burns, Barrick, Toronto, Ontario (electronic copy)
G. Hoffman, Hydro-Engineering, Casper, Wyoming (electronic copy)